SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION

PRODUCT: FOSTER 81-10
PRODUCT DESCRIPTION: Adhesive
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802386PM

COMPANY INFORMATION

H.B. Fuller Company
1200 Willow Lake Boulevard
Vadnais Heights, MN 55110
Telephone: 888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Symbols:

GHS Signal Word: Danger

GHS Classification: Skin Sensitisation Category 1; Aspiration Hazard Category 1; Flammable Liquid Category 2; Skin Corrosion/Irritation Category 2; Reproductive Toxicity Category 2; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2; Hazardous to the aquatic environment - Chronic Category 2; Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Hazard Phrases: Highly flammable liquid and vapour.; May be fatal if swallowed and enters airways.; Causes skin irritation.; May cause an allergic skin reaction.; May cause respiratory irritation.; May cause drowsiness or dizziness.; Suspected of damaging fertility or the unborn child.; May cause damage to organs through prolonged or repeated exposure.; Toxic to aquatic life with long lasting effects.

GHS Precautions: Safety Precautions: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures: IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position...
comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
P362+P364 - Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish. Collect spillage.


Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation for chemical wastes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>PERCENT</th>
<th>Classification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, n</td>
<td>110-54-3</td>
<td>50-70</td>
<td>Aquatic Chronic 2; H411</td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repr. 2; H361</td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H335, H336</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1-5</td>
<td>Aquatic Chronic 1; H410</td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Repr. 2; H361</td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H335, H336</td>
</tr>
<tr>
<td>Tri(nonylphenol)phosphate</td>
<td>26523-78-4</td>
<td>0.1-1</td>
<td>Aquatic Chronic 1; H410</td>
<td>Skin Sens. 1; H317</td>
</tr>
</tbody>
</table>

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

SECTION 4: FIRST AID MEASURES

IF IN EYES: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can travel to a source of ignition and flash back.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide
SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.
Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
Keep away from heat, sparks and flame.
Wash thoroughly after handling.
Keep container closed.
Emptied container retains vapor and product residue.
Observe all labeled precautions until container is cleaned.
Drums of this material should be grounded when pouring.
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

Storage: Store in a cool, dry, ventilated location. Keep away from heat, sparks, flame and other sources of ignition. Keep container closed.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSOINAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Note</th>
<th>ACGIH EXPOSURE LIMITS</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, n</td>
<td>50 ppm TWA</td>
<td>Skin absorption may potentially contribute to the overall exposure to this material.</td>
<td>500 ppm TWA; 1800 mg/m3 TWA</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm TWA</td>
<td></td>
<td>200 ppm TWA 300 ppm Ceiling</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROL METHODS:

VENTILATION: Use local exhaust ventilation or other engineering controls to minimize exposures.

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOR: Green
ODOR: Solvent
ODOR THRESHOLD: Not established
pH: Not established
FREEZING/MELTING POINT (deg. C): Not established
BOILING POINT (deg. C): Not established
FLASH POINT: -21°C; -6°F Pensky-Martens
EVAPORATION RATE: Not established
FLAMMABILITY: Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air): Not established
LOWER EXPLOSIVE LIMIT (% in air): Not established
VAPOR PRESSURE (mm Hg): Not established
VAPOR DENSITY: Not established
WEIGHT PER GALLON (lbs.): 6.10
SPECIFIC GRAVITY: 0.730
SOLUBILITY: Not established
OCTANOL/WATER COEFFICIENT: Not established
AUTOIGNITION TEMPERATURE: Not established
DECOMPOSITION TEMPERATURE: Not established
VISCOSITY: No data available.
SOLIDS (% by weight): 27.7
VOC, weight percent: Not determined
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined): 535g/liter of material

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.
CHEMICAL INCOMPATIBILITY: Strong oxidizing agents
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, n</td>
<td>Dermal LD50 Rabbit 3,000.00 mg/kg</td>
</tr>
<tr>
<td>Toluene</td>
<td>Oral LD50 Rat 636 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50 Rat 12.50 mg/l</td>
</tr>
</tbody>
</table>

This product is a mixture. Unless noted, the information below is based on components.
SAFETY DATA SHEET

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eye damage / irritation: No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: Contains a substance that is a possible reproductive hazard based on animal studies.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Central nervous system, Peripheral nervous system, Reproductive system, Liver

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Liver disease

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available for this product.

MOBILITY: No data available.

PERSISTENCE: No data available.

BIOACCUMULATION: No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecotoxicity values:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, n</td>
<td><strong>Acute Toxicity (Fish):</strong> LC50 96 h <em>Pimephales promelas</em> 2.1 - 2.98 mg/L [flow-through] (EPA)</td>
</tr>
<tr>
<td></td>
<td><strong>Acute Toxicity (Algae):</strong> Not established</td>
</tr>
<tr>
<td>Toluene</td>
<td><strong>Acute Toxicity (Fish):</strong> LC50 96 h <em>Pimephales promelas</em> 15.22 - 19.05 mg/L [flow-through] (EPA); LC50 96 h <em>Pimephales promelas</em> 12.6 mg/L [static] (EPA); LC50 96 h <em>Oncorhynchus mykiss</em> 5.89 - 7.81 mg/L [flow-through] (EPA); LC50 96 h <em>Oncorhynchus mykiss</em> 14.1 - 17.16 mg/L [static] (EPA); LC50 96 h <em>Oncorhynchus mykiss</em> 5.8 mg/L [semi-static] (EPA); LC50 96 h <em>Leptomis macrochirus</em> 11.0 - 15.0 mg/L [static] (EPA); LC50 96 h <em>Oncorhynchus mykiss</em> 5.89 - 7.81 mg/L [flow-through] (EPA); LC50 96 h <em>Oncorhynchus mykiss</em> 14.1 - 17.16 mg/L [static] (EPA); LC50 96 h <em>Poecilia reticulata</em> 28.2 mg/L [semi-static] (EPA); LC50 96 h <em>Poecilia reticulata</em> 50.87 - 70.34 mg/L [static] (EPA)</td>
</tr>
<tr>
<td></td>
<td><strong>Acute Toxicity (Algae):</strong> 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]</td>
</tr>
</tbody>
</table>

SECTION 13: DISPOSAL CONSIDERATIONS

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Toluene

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.
SAFETY DATA SHEET

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.

AUSTRALIA AICS: This product is in compliance with the Australian Inventory of Chemical Substances requirements.

JAPAN ENCS: This product is in compliance with the Japanese Existing and New Chemical Substances requirements.

KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List requirements.

PHILIPPINES: This product is in compliance with the Philippine Inventory of Chemicals and Chemical Substances requirements.

CHINA IECSC INVENTORY: This product is in compliance with the Inventory of Existing Chemical Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

This product contains a chemical substance that is subject to a Significant New Use Rule (SNUR) under Section 5(a)(2) of TSCA: 4-Nonylphenol, branched 79 FR 59186, Oct 1, 2014 (proposed rule)

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
<td>50 - 70</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

<table>
<thead>
<tr>
<th>Chemical Name/List</th>
<th>CAS</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>(Developmental toxin)</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>(Female reproductive toxin)</td>
<td>108-88-3</td>
</tr>
</tbody>
</table>
### Substances of Very High Concern (SVHC) Content:
Unless listed below, this product does not contain SVHC’s at 0.1% or greater, as of the version date of this SDS.

<table>
<thead>
<tr>
<th>Substances</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
<td>50 - 70</td>
</tr>
</tbody>
</table>

### SECTION 16: OTHER INFORMATION

SDS VERSION DATE: 01-08-2020

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 3 REACTIVITY -- 0
See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department
Phone: 651-236-5842

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